Issue No: 73
March: 2011

The fghanistan grometerological AAM onthly Bulletin

Topics Crop Information Precipitation Temperature NDVI



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The Agromet Project of USGS, is working together with the Ministry of Agriculture, Irrigation and Livestock (MAIL) and the Afghan Meteorological Authority (AMA) of Ministry of Transport (MoT)

BULLETIN

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Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project , Afghan Meteorological Authority (AMA), United States Geological Survey (USGS), Food and Agriculture Organization of United Nation (FAO)

Summary

During the month of March 2011, low pressure systems with adequate moisture passed the country and brought snow and rain in different parts of the country. However, precipitations were light than the usual precipitation during the month of March, rainfall was enough to reduce short term dryness which was occurred in the last months.

As usual during the month of March 2011,distribution of rainfall was variable in different provinces in the country.

During the month of March 2011, temperature was lower than the same month of last year around the country.

Recorded data of temperature shows that the Northeastern, Capital and Central Highlands experienced extreme cold weather at the level of freezing point, in the lowland areas in the southern and Southwestern regions the temperature was accompanied with the positive values.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Emergence	Normal	Not Existed
		Paghman	Paghman	Emergence	Normal	Poor Rainfall
		Kabul	Darulaman	Emergence	Normal	Shortage of Inputs
		Surubi	Surubi	Vegetative	Normal	Weeds
	Panjsher	Dara	Dara	Emergence	Poor	Frost
		Dashtak	Dashtak	Vegetative	Normal	Not Existed
	Parwan	Syagerd	Gor band	Vegetative	Normal	Not Existed
		Charikar	Charikar	Emergence	Good	Shortage of Inputs
	Kapisa	Mahmoodraqi	Mahmoodraqi	Emergence	Normal	Not Existed
		Kohistan	Kohistan	Vegetative	Normal	Not Existed
	Wardak	Chake	Chake	Emergence	Normal	Not Existed
		Jaghatoo	Jaghatoo	Dormancy		
	Bamyan	Bamyan	Bamyan	Vegetative	Normal	Not Existed
		Yakawlang	Yakawlang	Emergence	Normal	Not Existed
		Panjab	Panjab	Emergence	Normal	Not Existed
		Shebar	Shebar	Emergence	Normal	Frost
	Ghazni	Muqur	Muqur	Emergence	Normal	Not Existed
		Andar	Bande Sardi	Emergence	Normal	Not Existed
East	Nangarhar	Agam	Agam	Vegetative	Normal	Weeds
		Batikot	Ghaziabad	Vegetative	Normal	Not Existed
		Jalalabad	Farm jaded	Vegetative	Normal	Not Existed
		Behsood	Behsood	Vegetative	Normal	Not Existed

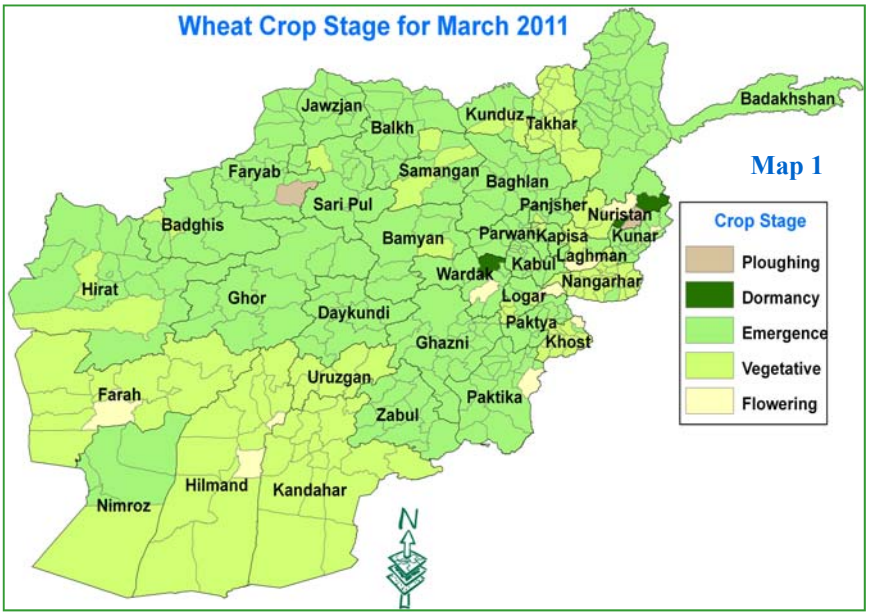
Crop Stage, Crop Condition and Adverse Factor

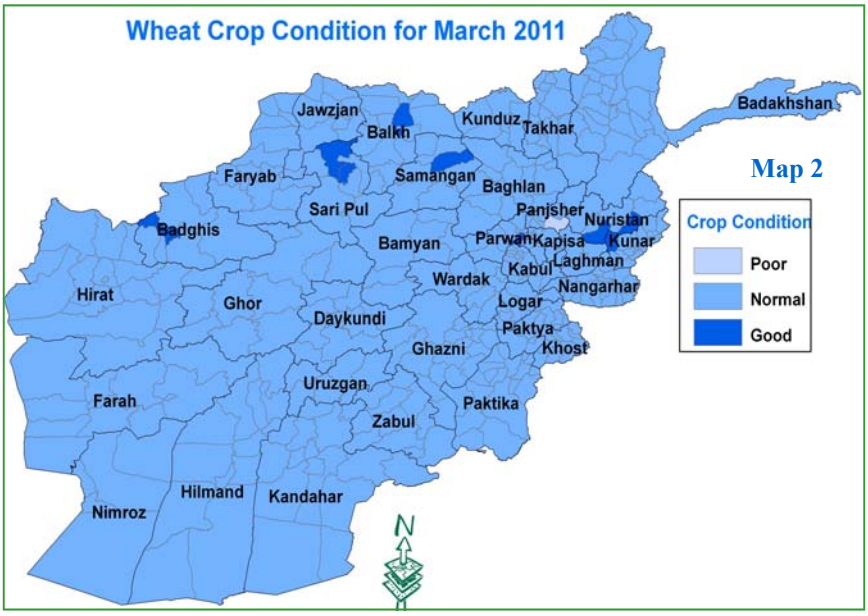
Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	Emergence	Good	Not Existed
		Asad Abad	Asad Abad	Flowering	Normal	Poor Rainfall
	Laghman	Mihtarlam	Mihtarlam	Flowering	Normal	Poor Rainfall
		Qarghay	Qarghay	Flowering	Normal	Not Existed
	Noristan	Paroon	Paroon	Dormancy		
		Do Ab	Do Ab			
		Norgaram	Norgaram	Flowering	Good	Not Existed
		Waigal	Waigal	Flowering	Good	Not Existed
		Wama	Wama	Ploughing		
North East	Takhar	Bangi	Bangi	Vegetative	Normal	Weeds
		Taluqan	Taluqan	Vegetative	Normal	Not Existed
	Kunduz	Imam Sahib	Imam Sahib	Vegetative	Normal	Not Existed
		Qaliazal	Aqtipa	Emergence	Normal	Not Existed
		Khan Abad	Khan Abad	Vegetative	Normal	Not Existed
		Kunduz	Kunduz	Emergence	Normal	Not Existed
		Ali Abad	Ali Abad	Vegetative	Normal	Not Existed
	Baghlan	Pulikhomri	Pozaishan	Emergence	Normal	Late Planting
	Badakhshan	Argo	Argo	Emergence	Normal	Not Existed
		Baharak	Baharak	Emergence	Normal	Not Existed
		Ashkashm	Ashkashm	Emergence	Normal	Not Existed
		Khash	Kash	Emergence	Normal	Weeds
		Faiz Abad	Faiz Abad	Emergence	Normal	Not Existed
South East	Khost	Khost	Khost	Vegetative	Normal	Not Existed
		Khost	Shimal	Vegetative	Normal	Not Existed
		Ali Sher	Ali Sher	Flowering	Normal	Pest and Disease
	Paktia	Zormat	Rohani Baba	Emergence	Normal	Not Existed
		Gardiz	Tera	Emergence	Normal	Not Existed
	Paktika	Urgon	Urgon	Emergence	Normal	Not Existed
		Sharana	Sharana	Emergence	Normal	Not Existed
		Khair kot	Khair kot	Emergence	Normal	Not Existed

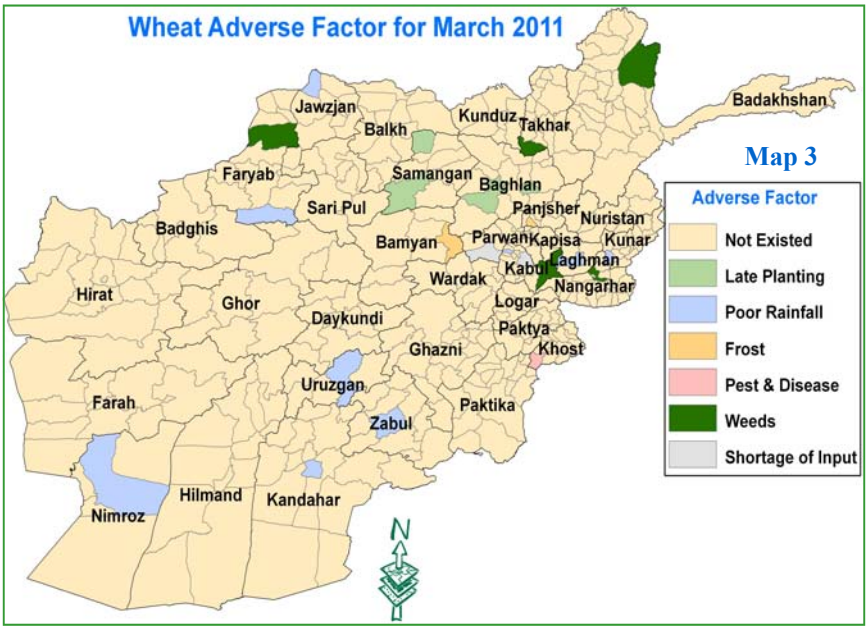
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
South	Nimroz	Zaranj	Zaranj	Emergence	Normal	Poor Rainfall
	Kandahar	Kandahar	Kandahar	Vegetative	Normal	Poor Rainfall
	Zabul	Qalat	Qalat	Emergence	Normal	Poor Rainfall
	Urozgan	Tirin Kot	Tirin Kot	Flowering	Normal	Poor Rainfall
	Hilmand	Nad Ali	Nad Ali	Vegetative	Normal	Not Existed
		Greshk	Greshk	Flowering	Normal	Not Existed
		Nawa	Nawa	Vegetative	Normal	Not Existed
		Lashkargah	Bolan	Flowering	Normal	Not Existed
North	Balkh	Takhta pol	Dihdadi	Vegetative	Normal	Not Existed
		Nahrishahi	Nahrishahi	Emergence	Good	Not Existed
	Jawzjan	Sheberghan	Sheberghan	Vegetative	Normal	Poor Rainfall
		Darzab	Darzab	Emergence	Normal	Not Existed
	Saripul	Saripul	Saripul	Vegetative	Good	Not Existed
		Sozmaqala	Sozmaqala	Emergence	Good	Not Existed
	Faryab	Maimana	Maimana	Emergence	Normal	Weeds
		Andkhoy	Andkhoy	Emergence	Normal	Poor Rainfall
		Garzeewan	Garzeewan	**Ploughing**		
	Samangan	Aibak	Aibak	Emergence	Good	Not Existed
		Dara Souf	Dara Souf	Vegetative	Normal	Late Planting
		Sar bagh	Sarbagh	**Dormancy**		
North West	Badghis	Qalainow	Qalainow	Emergence	Normal	Not Existed
		Muqur	Muqur	Vegetative	Good	Not Existed
	Ghor	Chaghcharan	Chaghcharan	Emergence	Normal	Not Existed
	Hirat	Shindand	Shindand	Vegetative	Normal	Not Existed
		Zindajan	Zindajan	Emergence	Normal	Not Existed
		Gwazara	Falahat	Emergence	Normal	Not Existed
		Hirat	Farm Urdokhan	Emergence	Normal	Not Existed
	Farah	Farah	Farah	Flowering	Normal	Not Existed

Wheat Crop Stage, Condition and Adverse Factor Maps







Data Source:Agromet Network

Precipitation

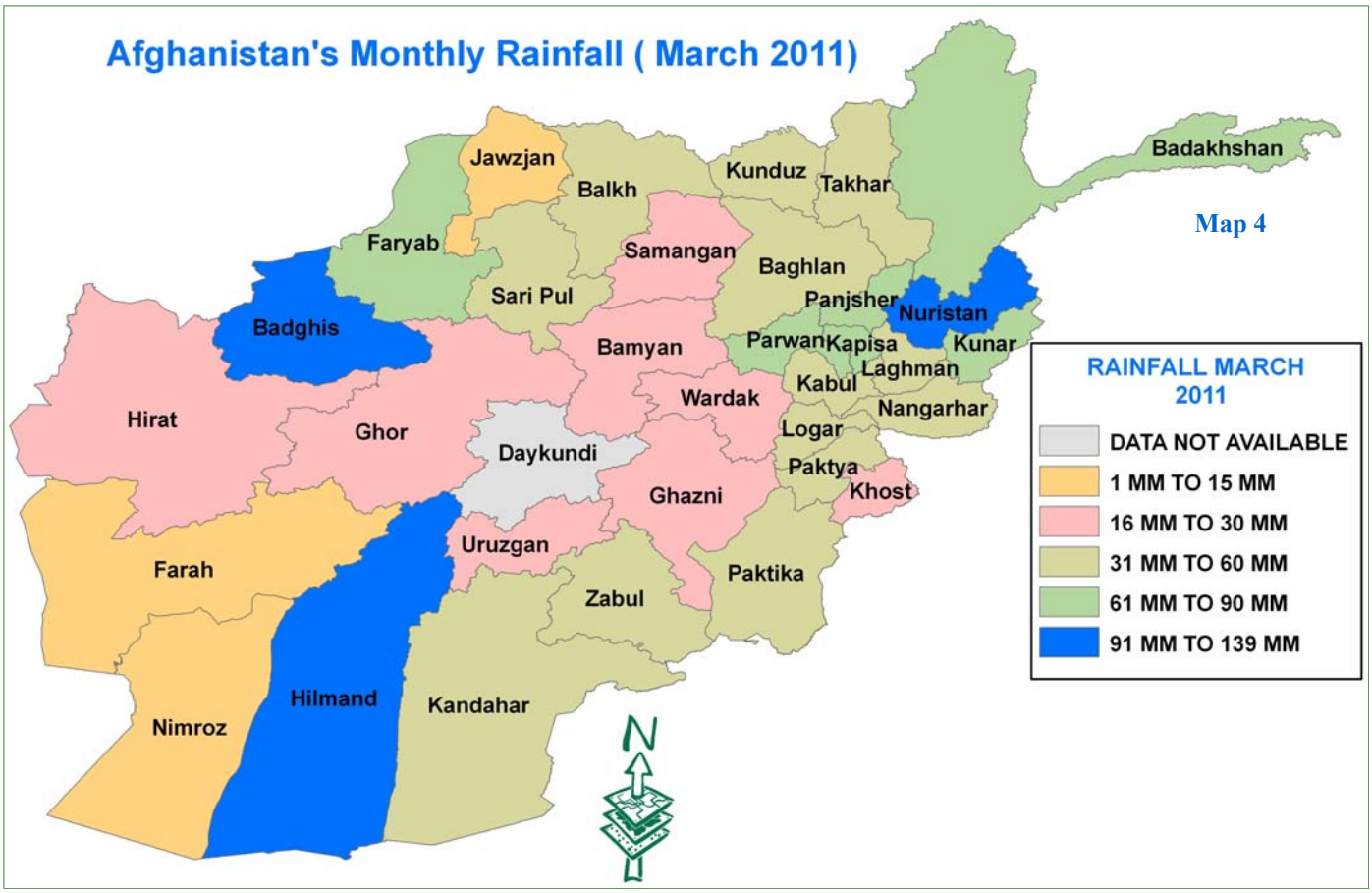
During the month of March 2011, low pressure systems with adequate moisture passed the country and brought snow and rain in different parts of the country. However, precipitations were light than the usual precipitation during the month of March, rainfall was enough to reduce short term dryness which was occurred in the last months. Rainfall had an increase during the month of March 2011 than the same month of last year. During the month of March 2011, rainfall had a decrease compared to the same month of long term average.

Comparison of rainfall for the month of March 2011 with the same month in 2010 (chart1) shows and increase of rainfall during the month of March 2011 over the same month of last year, rainfall had an increase in most of the stations, while rainfall was accompanied with decrease in some of the stations.

In general rainfall had an increase during the month if March 2011 compared to the same month of last year.

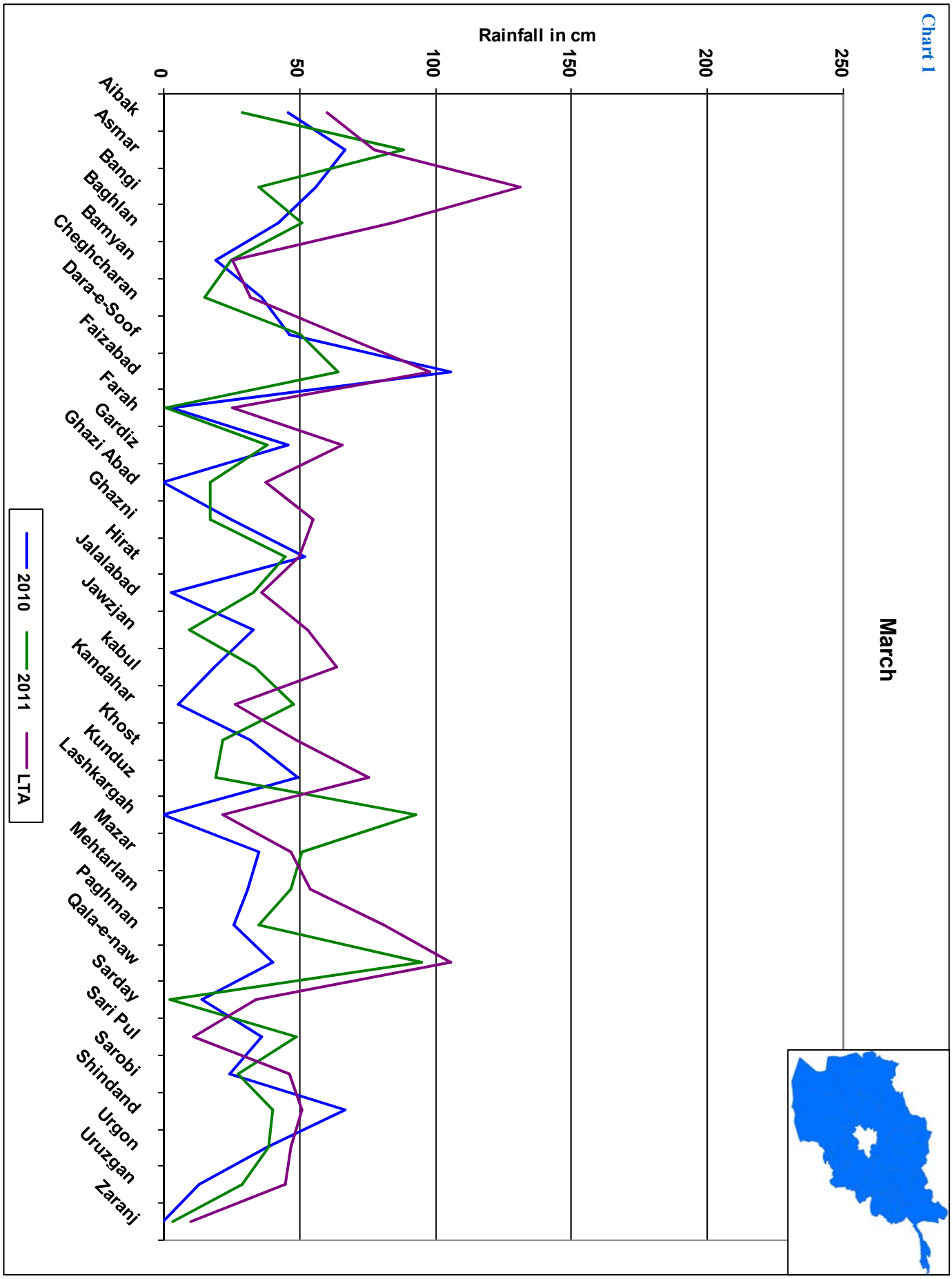
Comparison of rainfall data for the month of March 2011 with the same month of long term average (chart1) shows a decrease of rainfall during the month of March 2011 over the same month of long term average.

As usual during the month of March 2011, distribution of rainfall was variable in different provinces in the country. As map (4) shows most amount of rainfall occurred in some parts in the southern region, the Northern region, Northeastern, Eastern and southeastern regions experienced moderate rainfall , the low amount of rainfall recorded in the Southwestern regions.



Map 4

Chart 1



Data Source:Agromet Network

Rainfall for the Month of March 2011

Table 1

Station	March		
	Rainfall in (mm)		
	2010	2011	LTA
Aibak	46	29	60
Asmar	67	88.5	77.4
Bangi	56	35	131.1
Baghlan	42	51.2	84.1
Bamyan	19.5	25	25.4
Cheghcharan	36.2	15.1	31.8
Dara-e-Soof	46.5	50.2	64.8
Paroon	37	204	Data Not Available
Faizabad	105.5	64	98.2
Farah	3	1	25.3
Gardiz	45.7	38.2	65.9
Ghazi Abad	0	17	37.7
Ghazni	24.9	17.3	55
Hirat	51.8	45	49.9
Jaghatoo	61	23	Data Not Available
Jalalabad	3	33	36.2
Jawzjan	32.9	9.7	53.1
kabul	18.5	33.8	63.9
Kandahar	5.5	48	26.3
Khost	32	22	48.7
Kunduz	49.2	19	75.3
Lashkargah	0	93	21.7
Logar	Data Not Available	32.6	44.3
Mazar	35	51	46.7
Mehtarlam	31	47	54.1
Paghman	26	35	80.9
Qala-e-naw	40	95	105.8
Sarday	14	2.5	34
Sari Pul	36	49	10.9
Sarobi	24.5	27.2	46.5
Shindand	67	40	50.8
Urgon	38	38.5	46.9
Uruzgan	13	29	45
Zaranj	0	3.6	9.9
Zabul	23	53	Data Not Available

Data Source:Agromet Network

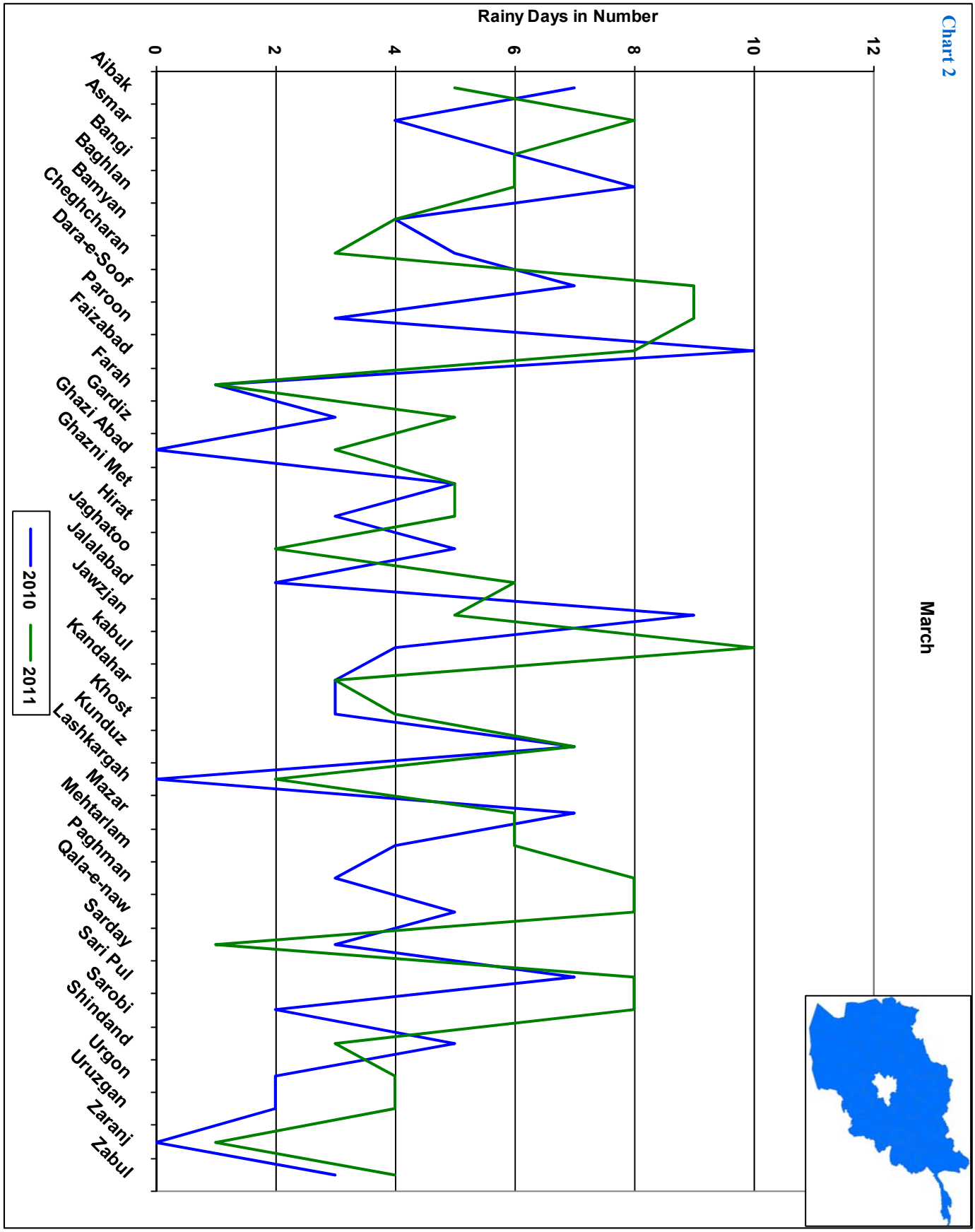
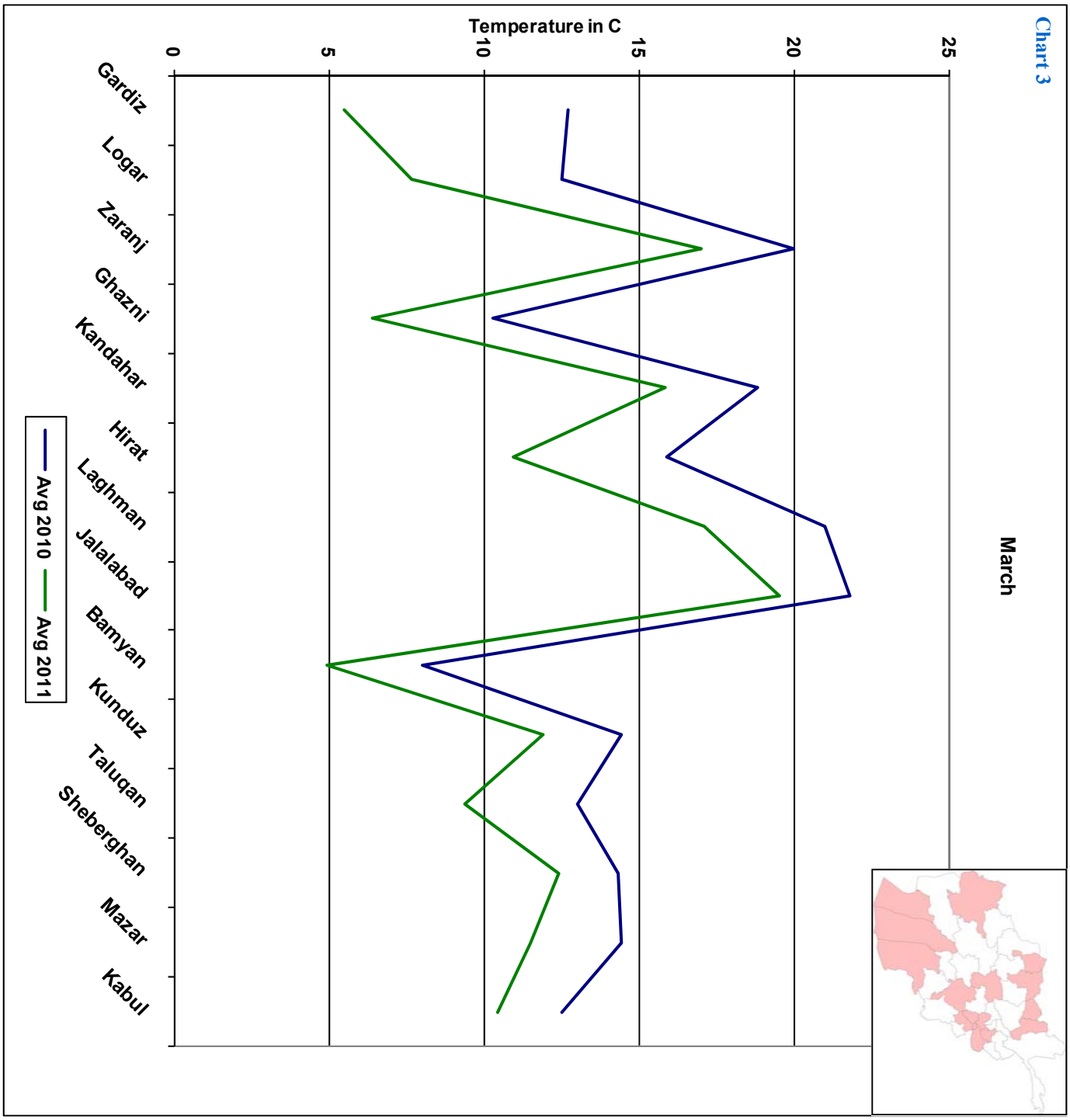


Chart 2

Comparison of rainy days for the month of March 2011 with the same month in 2010 (chart2) shows an increase In rainy days during the month of March 2011 over the same month of last year in most parts of the country.

Average Temperature for the Month of March 2011



Temperature for the month of March 2011 was lower than the same month of last year .

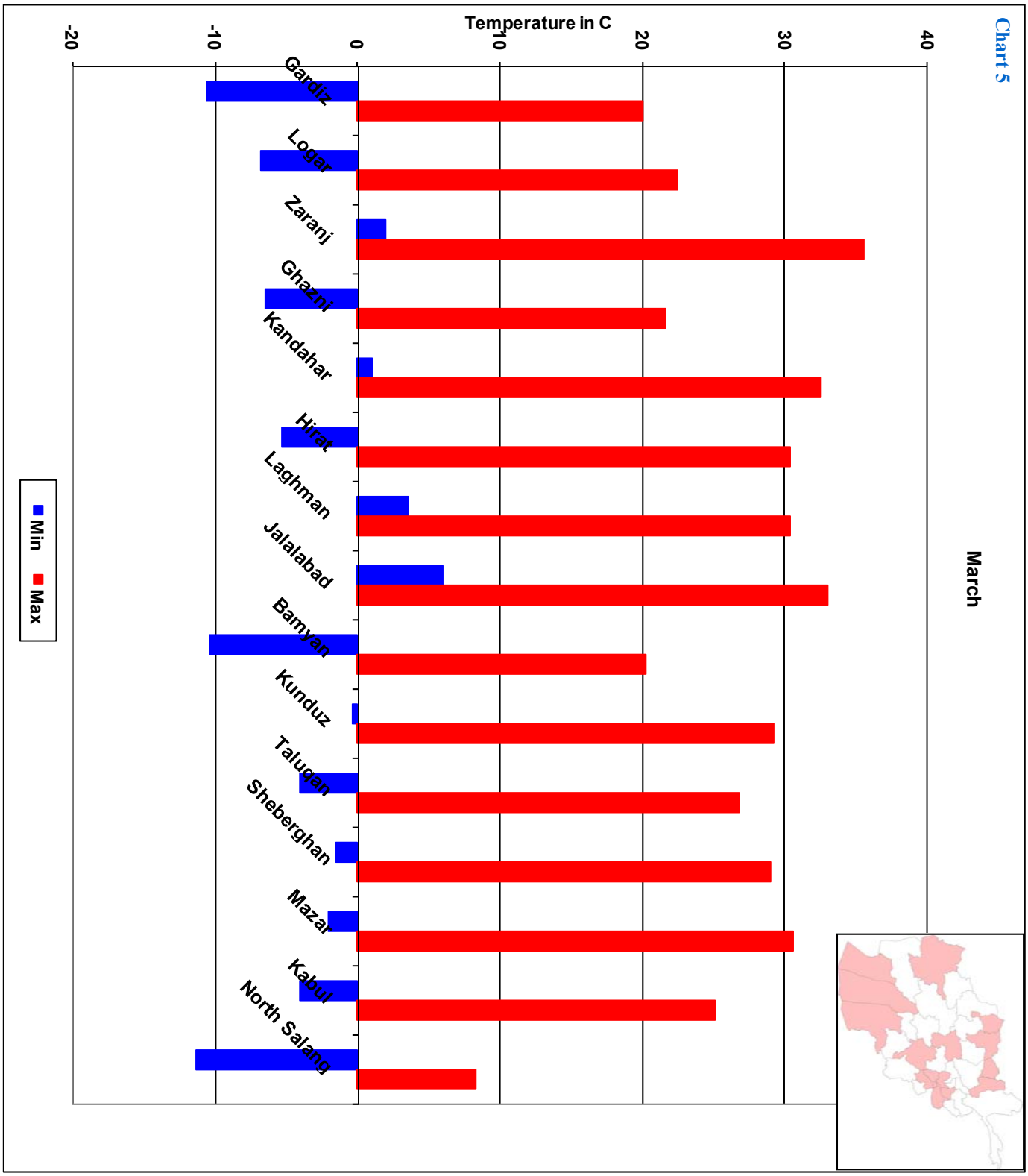
During the month of March 2011, temperature was lower than the same month of last year around the country.

Recorded data of temperature shows that the Northeastern, Capital and Central Highlands experienced extreme cold weather at the level of freezing point, in the lowland areas in the southern and Southwestern regions the temperature was accompanied with the positive values.

Comparison of monthly average of temperature for the month of March 2011 with the same month in 2010 (chart 3) shows a decrease in temperature during the month of March 2011 over the same month of last year almost in most of the stations round the country.

Data Source:AMA

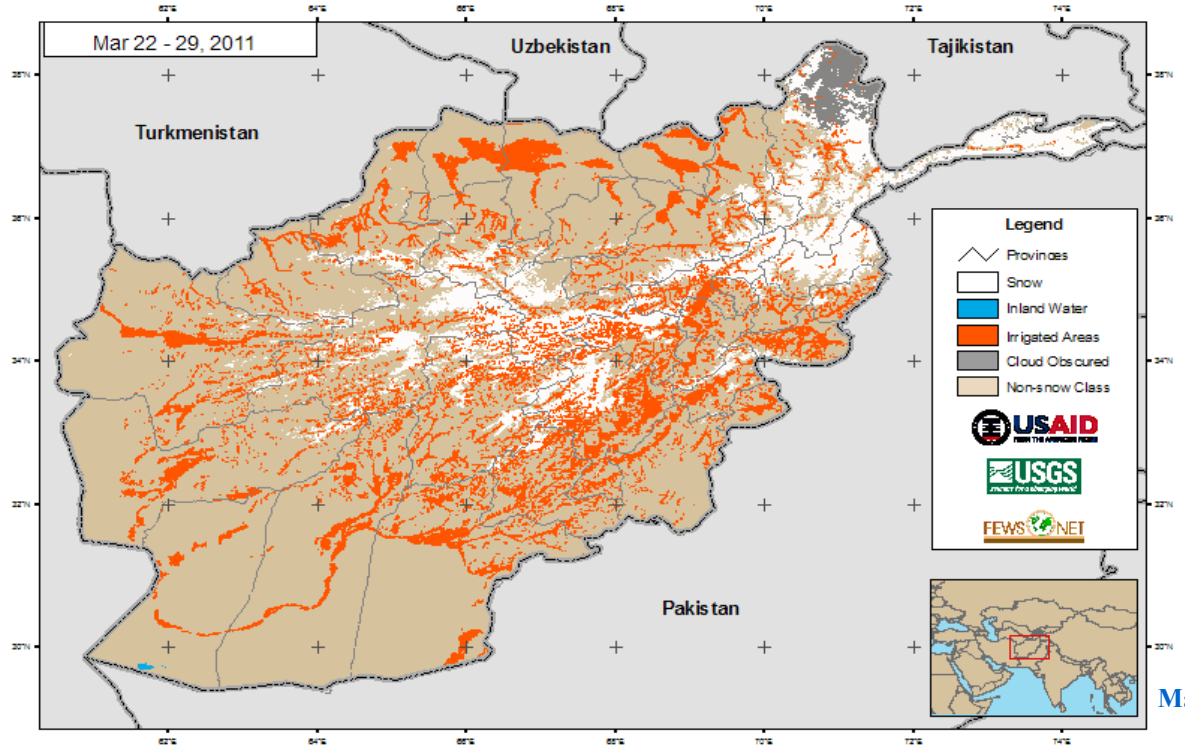
Temperature for the Month of March 2011



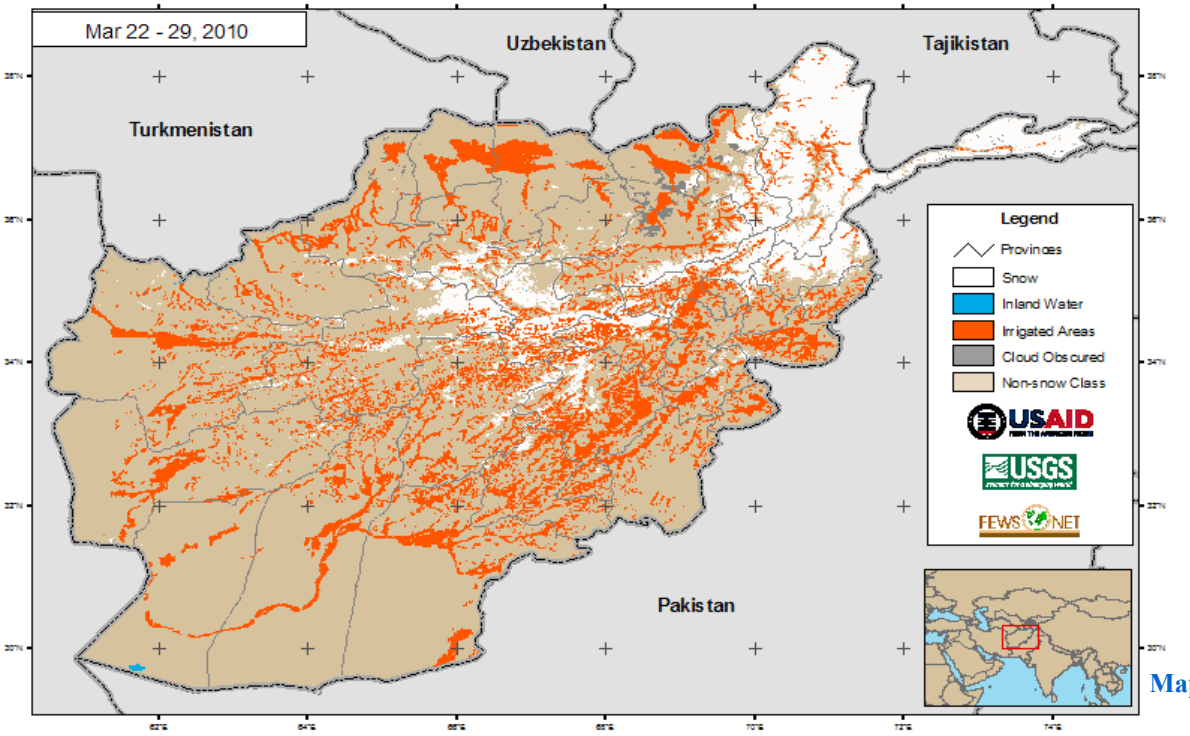
Zaranj with 35.6 ° C was the warmest spot of the Country during the month of March 2011 .

Chart (5) shows maximum and minimum temperature for the month of March 2011 in most of the stations around the country. As chart (5) shows Gardiz with – 10.6 °C experienced the lowest temperature during the month of March 2011 but, Zaranj with 35.6 °C was the warmest spot of the country during this month.

MODIS 8-day Snow Cover Extent - Current Period 2011 vs 2010



Map 5

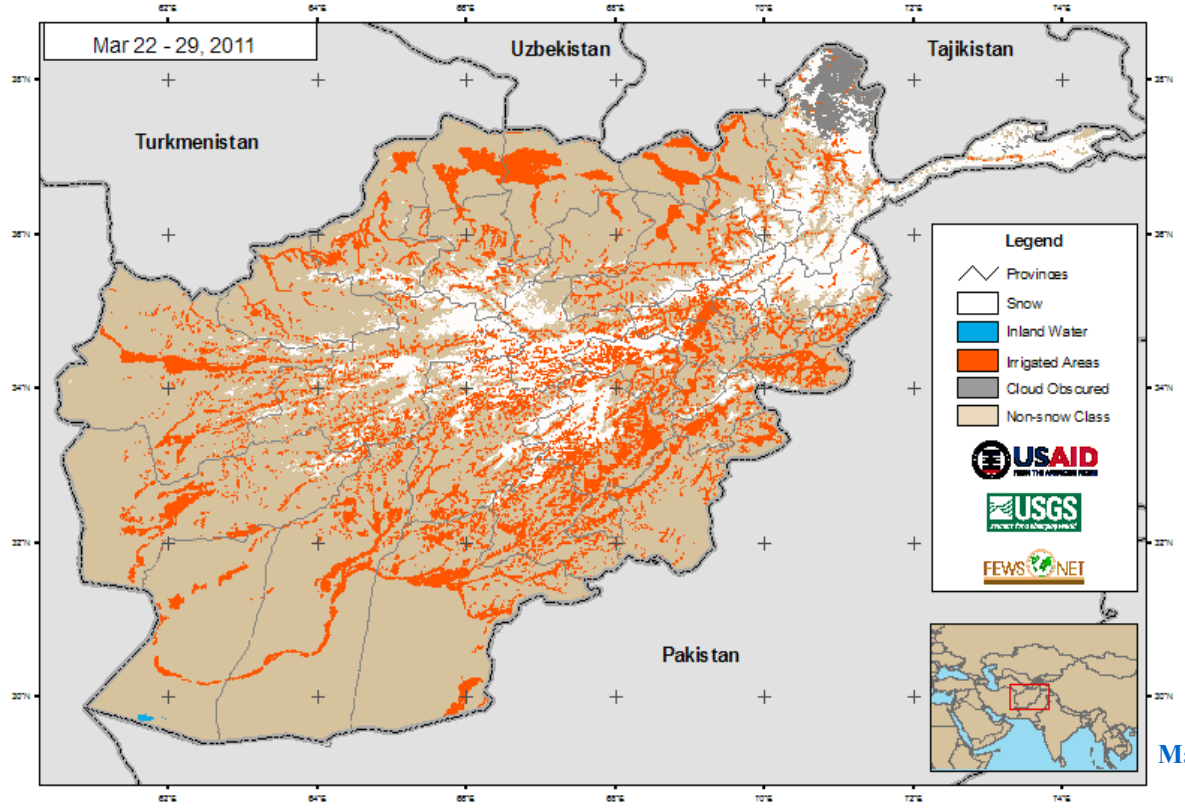


Map 6

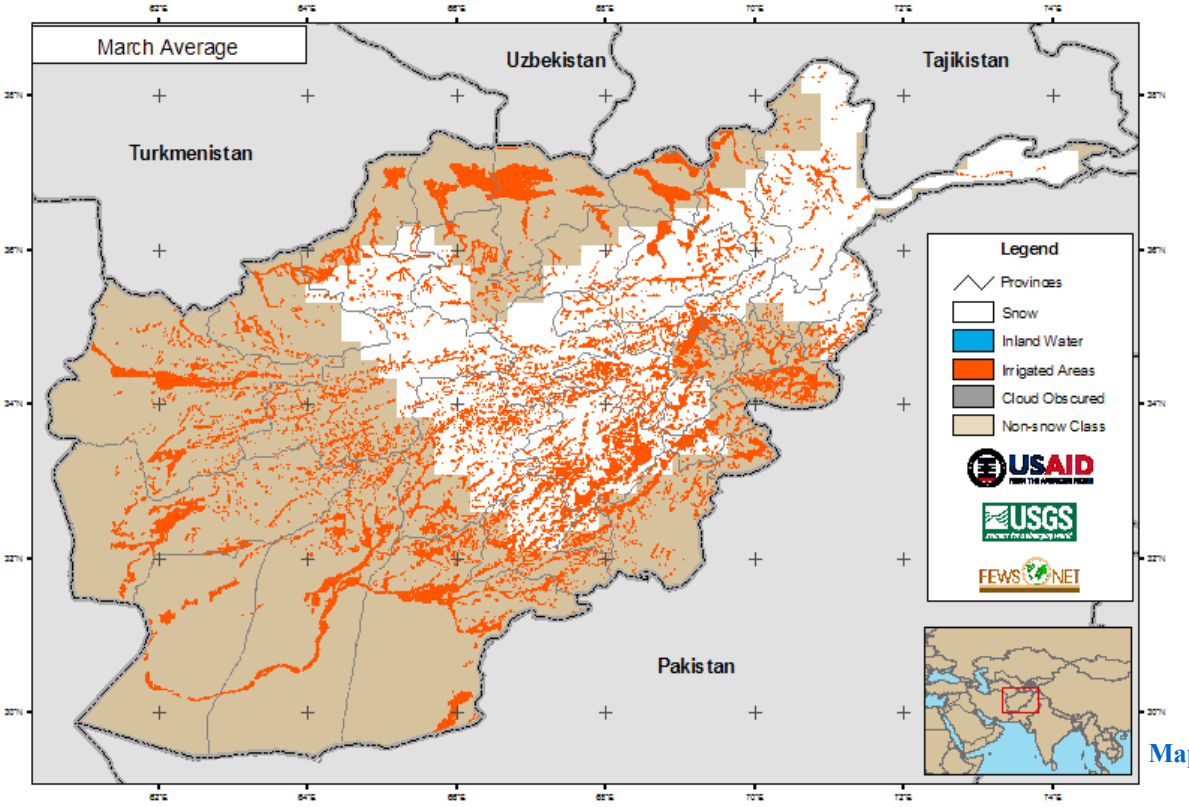
However, low pressure system brought rain and snow into the country during the month of March2011,unexpectedly, the snow was light during this month, which resulted a decrease in snow extend and depth compared to the same month of last year and compared to the long term average. Comparison of snow extent for the period of March (22- 29) 2011 with the same period in March 2010 (Map 5 - 6) shows a decrease of snow extent during the above mentioned period in March 2011 over the same period of last year.

Data Source:USGS

MODIS 8-day Snow Cover Extent - Current vs Historical Average



Map 7

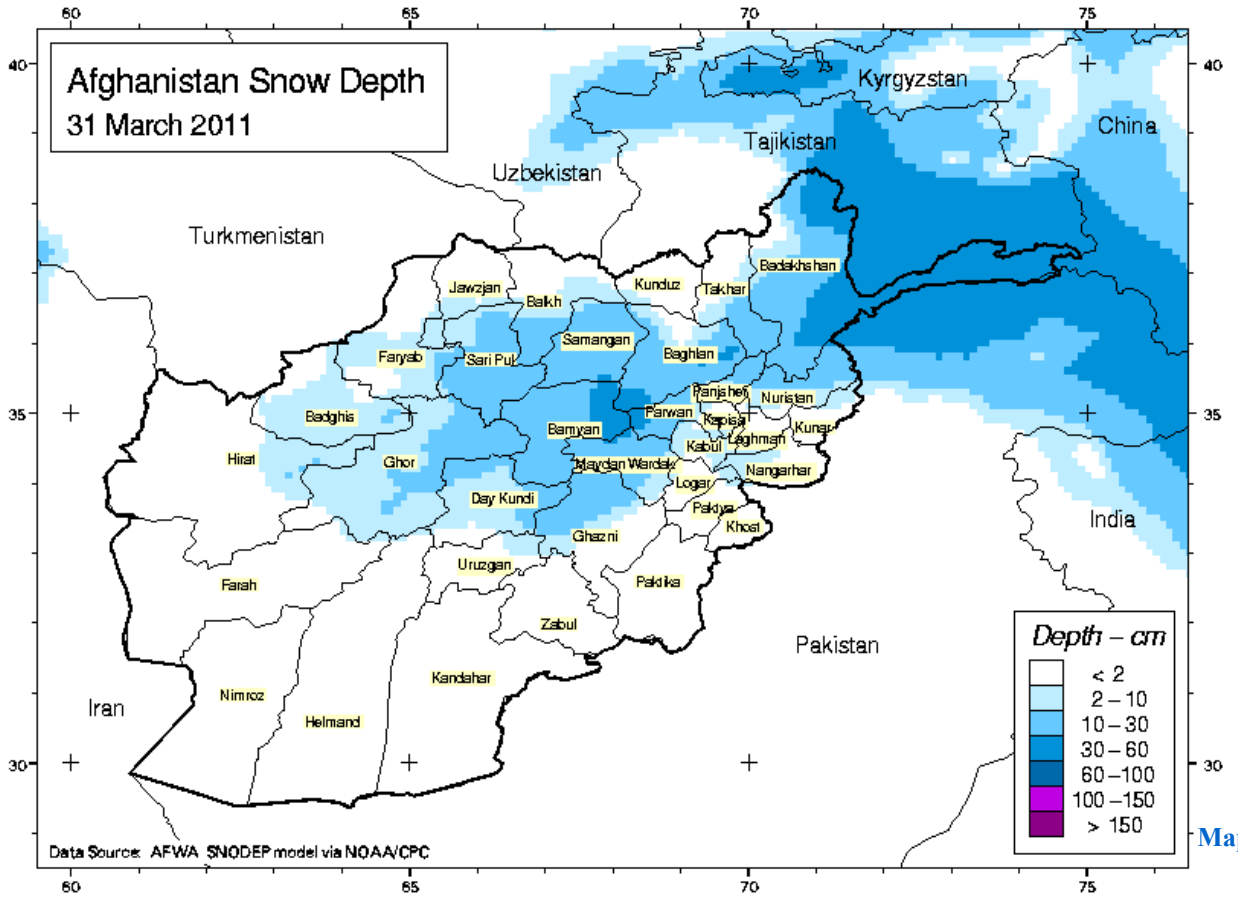


Map 8

Comparison of snow extent for the month of March 2011 with the same month of long term average (Map 7 - 8) shows significant decrease in snow extent during t the month of March 2011 over the same month of long term average.

Data Source:USGS

Afghanistan Snow Depth for month of March 2011



Map 9

Map (9) shows snow depth at the end of March 2011 in the country. As map (9) shows the snow depth has been recorded 30 to 60 cm in the in the Northeastern regions, and 10 to 30 cm for the central Highlands and neighboring areas.

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